

RAW SEQUENCE LISTING

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:20

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw

4 <110> APPLICANT: Tikoo, Suresh
 5 Babiuk, Lorne
 6 Zhang, Linong
 7 Wu, Qiaohua
 9 <120> TITLE OF INVENTION: MODIFIED BOVINE ADENOVIRUS HAVING
 10 ALTERED TROPISM
 12 <130> FILE REFERENCE: 293102003000
 14 <140> CURRENT APPLICATION NUMBER: US 09/871,212
 15 <141> CURRENT FILING DATE: 2001-05-31
 17 <150> PRIOR APPLICATION NUMBER: 60/208,678
 18 <151> PRIOR FILING DATE: 2000-05-31
 20 <160> NUMBER OF SEQ ID NOS: 9
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 34446
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Bovine Adenovirus 3
 29 <400> SEQUENCE: 1

ENTERED

30	catcatcaat aatctacagt acactgatgg cagcgggtcca actgccaatc attttttgcca	60
31	cgtcattttat gacgcaacga cggcgagcgt ggcgtgctga cgtaactgtg gggcgggagcg	120
32	cgtcgcgggag gcggcgggcgc tgggcggggc tgaggcgggc gggggcgggc gcggggcggg	180
33	gcgcgcggggc ggggcgaggg gcggagttcc gcaaccgcta cgtcattttc agacattttt	240
34	tagcaaattt gcgccttttg caagcatttt tctcacattt caggatttta gagggcggtat	300
35	ttttggtgtt cgtacttccg tgtcacatag ttcaactgtca atcttcatta cggcttagac	360
36	aaattttcgg cgtcttttcc gggtttatgt ccccggtcac ctttatgact gtgtgaaaca	420
37	cacctgcccc ttgtttaccc ttggtcagtt ttttcgtctc ctagggtggg aacatcaaga	480
38	acaaatttgc cgagtaattg tgcacctttt tccgcgttag gactgcgttt cacacgtaga	540
39	cagacttttt ctcatcttct cacactccgt cgtccgcttc agagctctgc gtcttcgctg	600
40	ccaccatgaa gtacctggtc ctcgttctca acgacggcat gagtcgaatt gaaaaagctc	660
41	tcctgtgcag cgatggtgag gtggatttag agtgtcatga ggtacttccc cttctccccg	720
42	cgctgtccc cgcttctgtg tcacccgtga ggagtcctcc tcctctgtct ccggtgtttc	780
43	ctccgtctcc gccagccccg cttgtgaatc cagaggcgag ttcgctgctg cagcagtatc	840
44	ggagagagct gttagagagg agcctgctcc gaacggccga aggtcagcag cgtgcagtgt	900
45	gtccatgtga gcggttgccc gtggaagagg atgagtgtct gaatgccgta aatttgctgt	960
46	ttcctgatcc ctggctaaat gcagctgaaa atgggggtga tatttttaag tctccggcta	1020
47	tgtctccaga accgtggata gatttgctta gctacgatag cgatgtagaa gaggtgacta	1080
48	gtcaactttt tctggattgc cctgaagacc ccagtcggga gtgttcatct tgtgggtttc	1140
49	atcaggctca aagcggaatt ccaggcatta tgtgcagttt gtgtacatg cgccaaacct	1200
50	accattgcat ctatagtaag tacattctgt aaaagaacat cttggtgatt tctagggtatt	1260
51	gttttagggat taactgggtg gagtgatctt aatccggcat aaccaaatac atgttttcac	1320
52	aggtccagtt tctgaagagg aaatgtgagt catgttgact ttggcgcgca agaggaaatg	1380
53	tgagtcagt tgactttggc gcgcctacg gtgactttta agcaatttga ggatcacttt	1440
54	tttgtttagtc gctataaagt agtcacggag tcttcatgga tcacttaagc gttcttttg	1500
55	atttgaagct gcttcgctct atcgtagcgg gggcttcaaa tcgcactgga gtgtggaaga	1560
56	ggcggctgtg gctgggacgc ctgactcaac tgggtccatga tacctgcgta gagaacgaga	1620
57	gcatatttct caattctctg ccagggaatg aagctttttt aagggtgctt cggagcggct	1680
58	attttgaagt gtttgacgtg tttgtggtgc ctgagctgca tctggacact ccgggtcgag	1740

RAW SEQUENCE LISTING

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:20

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw

59	tggtcgccgc	tcttgctctg	ctggtgttca	tcctcaacga	tttagacgct	aattctgctt	1800
60	cttcaggctt	tgattcaggt	tttctcgtgg	accgtctctg	cgtgccgcta	tggctgaagg	1860
61	ccagggcggt	caagatcacc	cagagctcca	ggagcacttc	gcagccttcc	tcgtcgccccg	1920
62	acaagacgac	ccagactacc	agccagtaga	cggggacagc	ccaccccggg	ctagcctgga	1980
63	ggaggctgaa	cagagcagca	ctcgtttcga	gcacatcagt	taccgagacg	tggtggaatga	2040
64	cttcaataga	tgccatgatg	ttttttatga	gaggtacagt	tttgaggaca	taaagagcta	2100
65	cgaggctttg	cctgaggaca	atttgagca	gctcatagct	atgcatgcta	aaatcaagct	2160
66	gctgcccggg	cgggagtatg	agttgactca	acctttgaac	ataacatctt	gcgcctatgt	2220
67	gctcggaagt	ggggctacta	ttagggtaac	aggggaagcc	tccccggcta	ttagagtggg	2280
68	ggccatggcc	gtgggtccgt	gtgtaacagg	aatgactggg	gtgacttttg	tgaattgtag	2340
69	gtttgagaga	gagtcaacaa	ttagggggct	cctgatacga	gcttcaactc	acgtgctggt	2400
70	tcatggctgt	tattttatgg	gaattatggg	cacttgatatt	gaggtggggg	cgggagctta	2460
71	cattcggggt	tgtgagtttg	tgggctgtta	ccggggaatc	tgttctactt	ctaacagaga	2520
72	tattaagggtg	aggcagtgca	actttgacaa	atgcttactg	ggtattactt	gtaaggggga	2580
73	ctatcgtctt	tcgggaaatg	tgtgttctga	gactttctgc	tttgctcatt	tagagggaga	2640
74	gggtttgggt	aaaaacaaca	cagtcaagtc	ccctagtcgc	tggaccagcg	agtctggctt	2700
75	ttccatgata	acttgtagc	acggcagggt	tacgcctttg	ggttccctcc	acattgtggg	2760
76	caaccgttgt	aggcgttggc	caaccatgca	ggggaatgtg	tttatcatgt	ctaaactgta	2820
77	tctgggcaac	agaataggga	ctgtagccct	gccccagtg	gctttctaca	agtccagcat	2880
78	ttgtttggag	gagagggcga	caaacaagct	ggctctggct	tgtgcttttg	agaataatgt	2940
79	actgggtgtac	aaagtgtgta	gacgggagag	tccctcaacc	gtgaaaatgt	gtgtttgtgg	3000
80	gacttctcat	tatgcaaagc	ctttgacact	ggcaattatt	tcttcagata	ttcgggctaa	3060
81	tcgatacatg	tacactgtgg	actcaacaga	gttcacttct	gacgaggatt	aaaagtgggc	3120
82	ggggccaaga	gggtataaaa	taggtgggga	ggttgagggg	agccgtagtt	tctgtttttc	3180
83	ccagactggg	ggggacaaca	tggccgagga	agggcgcat	tatgtgcctt	atgtaactgc	3240
84	ccgcctgccc	aagtggctcg	gttcggtgca	ggataagacg	ggctcgaaca	tgttgggggg	3300
85	tgtggtaactc	cctcctaatt	cacaggcgca	ccggacggag	accgtgggca	ctgaggccac	3360
86	cagagacaac	ctgcacgcg	agggagcgcg	tcgtcctgag	gatcagacgc	cctacatgat	3420
87	cttgggtggg	gactctctgg	gaggtttgaa	gaggcgaatg	gacttgctgg	aagaatctaa	3480
88	tcagcagctg	ctggcaactc	tcaaccgtct	ccgtacagga	ctcgctgcct	atgtgcaggc	3540
89	taaccttgtg	ggcgggccaag	ttaacccctt	tgtttaaata	aaaatacact	catacagttt	3600
90	attatgctgt	caataaaaatt	ctttattttt	cctgtgataa	taccgtgtcc	agcgtgctct	3660
91	gtcaataagg	gtcctatgca	tcctgagaag	ggcctcatat	accatggcat	gaatattaag	3720
92	atacatgggc	ataaggccct	cagaagggtt	gaggtagagc	cactgcagac	tttcgtgggg	3780
93	aggtaagggtg	ttgtaaataa	tccagtcata	ctgactgtgc	tgggcgtgga	aggaaaagat	3840
94	gtctttttaga	agaagggtga	ttggcaaagg	gaggctctta	gtgtaggtat	tgataaatct	3900
95	gttcagtttg	gagggatgca	ttcgggggct	aataagggtg	agtttagcct	gaatcttaag	3960
96	gttggcaatg	ttgcccccta	ggtctttgcg	aggattcatg	ttgtgcagta	ccacaaaaac	4020
97	agagtagcct	gtgcatttgg	ggaatttatc	atgaagcttg	gaggggaagg	catgaaaaaa	4080
98	ttttgagatg	gctttatggc	gccccaggtc	ttccatgcat	tcgtccataa	taatagcaat	4140
99	aggccccggt	ttggctgcct	gggcaaacac	gttctgaggg	tgggcgacat	catagttgta	4200
100	gtccatgggtc	aggtcttcat	aggacatgat	cttaaaggca	ggttttaggg	tgtctgtttg	4260
101	aggaaccaga	gttcctgttg	ggccgggggt	gtagttccct	tcacagattt	gggtctccca	4320
102	agcaagcagt	tcttgccggg	gtatcatgtc	aacttggggg	actataaaaa	aaacagtttc	4380
103	gggagggtgt	tgaatgaggc	ccgtagacat	aaggtttctg	aggagctggg	attttccaca	4440
104	accggttggg	ccgtagacca	ccccataaac	gggttgcagt	gtaaagttaa	aagatttgca	4500
105	tgaaccgtca	gggcgcagat	atggcatggt	ggcattcatg	gcactctcta	tcgcctgatt	4560
106	atagtctgag	agggcattga	gtaggggtggc	gcccccata	gccagtagct	cgtccaagga	4620
107	agaaaagtgt	ctaagagggt	tgaggcccttc	agccatgggc	atggactcta	agcactgttg	4680

RAW SEQUENCE LISTING

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:20

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw

108	catgagagca	catttgtccc	aaagctcaga	gacgtggtct	agtacatctc	catccagcat	4740
109	agctctttgt	ttcttgggtt	ggggtggctg	ttgctgtagg	gggcgagacg	gtgacggctg	4800
110	atggcccgcga	gggtgcggtc	tttccagggc	ctgagcgtcc	tcgccagggg	cgtctcggtg	4860
111	accgtgaagg	gctgctgatg	cgtctgtctg	ctgaccagcg	agcgccctcag	gctgagcctg	4920
112	ctgggtgccga	acttttcgtc	gcctagctgt	tcagtggaat	aataacaagt	caccagaagg	4980
113	tcgtaggaga	gttgtgaggt	ggcatggcct	ttgctcgaag	tttgccagaa	ctctcggcgg	5040
114	cggcagcttg	ggcagtagat	gtttttaagg	gcatatagtt	tgggggctaa	gaagacagat	5100
115	tcctggctgt	gggcgtctcc	gtggcagcgg	gggcactggg	tctcgcattc	cacaagccaa	5160
116	gtcagctgag	ggttgggtgg	atcaaagacc	agaggacggg	tattaccttt	caggcgggtg	5220
117	ttgcctcggg	tgtccatgag	ttcctttccc	ctttgggtga	gaaacatgct	gtccgtgtct	5280
118	ccgtagacaa	atttgagaat	ccggtcttct	aggggagtg	ctctgtcttc	taaatagagg	5340
119	atgtctgccc	attcagagac	aaaggctcta	gtccacgcga	ggacaaatga	agctatgtgt	5400
120	gaggggtatc	tgttattaaa	tatgagagag	gatttttttt	gcaaagtatg	caggcacagg	5460
121	gctgagtcac	cagcttccag	aaagggtgatt	ggtttgtgta	tgatgtcac	gtgatgggtc	5520
122	tgggggtctc	ccagggtata	aaagggggcg	tcttcgtctg	aggagctatt	gctagtgggt	5580
123	gtgcaactgac	ggtgcttccg	cgtggcatcc	gtttgtgctg	tgacgggtga	gtaggtgatt	5640
124	tttagctctg	ccatgacaga	ggagctcagg	ttgtcagttt	ccacgaaggc	ggtgcttttg	5700
125	atgtcgtagg	tgccgtctga	aatgcctcta	acataatttg	cttccatttg	gtcagaaaag	5760
126	acagtgactc	tgttgtctag	cttagtgga	aagctgccat	acagggcatt	ggacagcagt	5820
127	ttggcaatgc	ttctgagagt	ttggtttttc	tctttatccg	ccctttcctt	gggcgcaatg	5880
128	ttaagttgca	cgtagtctct	agccagacac	tcccactggg	gaaatactgt	ggtgcggggg	5940
129	tcgttgagaa	tttggaactc	ccagccgcgg	ttatgaagcg	tgatggcatc	caaacaagtt	6000
130	accacttccc	cccgtagtgt	ctcgttgggt	cagcagaggg	gacctccttt	tctggagcag	6060
131	aagggcggtg	taacgtccaa	gaatgcttct	gggggtgggt	ctgcatcaat	ggtgaatatc	6120
132	gcgggcagta	gggtgcgac	aaaatagtca	atgggtctgt	gcaactgggt	taggcgggtc	6180
133	tgccagtttt	taattgcaag	cgtcogatca	aaggggttca	aaggttttcc	cgtcgggaaa	6240
134	ggatgggtga	gggcgtcggc	atacatgccg	cagatgtcat	acacatagat	ggcttctggt	6300
135	aggacgccta	tgtaggtagg	atagcatcgg	ccgccccgaa	tactttctct	aacgtaatca	6360
136	tacatttcat	tggaaagggc	tagtagaaa	ttgcccagag	agctcctggt	gggacgctgg	6420
137	gacgcgtaga	ctacctgtct	gaagatggca	tgggaattgg	agctgatggg	gggcctttgg	6480
138	aggacattga	aattgcagtg	gggcagcccc	actgacgtgt	gaacaaagtc	caaataagat	6540
139	gcttggagtt	ttttaaccaa	ttcggccgta	accagcacgt	ccatagcaca	gtagtccaag	6600
140	gtgcgttgca	caatatcata	ggcacctgaa	ttctcttgca	gccagagact	cttattgaga	6660
141	aggtaactct	cgtcgtcggg	ccagtagtcc	ctctgaggaa	agaatctgc	gtcgggttcg	6720
142	taggtacctg	acatgtaaaa	ttcattttaca	gctttgtgta	ggcagcagcc	tttttccacg	6780
143	ggtaaagcgt	aagcggcagc	tgcgttcctg	agactcgtgt	gcgtgagagc	aaaggtatct	6840
144	cggaccatga	acttcacaaa	ctgaaattta	tagtctgctg	aggtgggagt	gccttcctcc	6900
145	cagtctttga	agtcttttcg	agcagcatgt	gtgggggttag	gcagagcaaa	agttaagtca	6960
146	ttgaaaagaa	tcttgccaca	acgaggcatg	aaatttctac	tgactttaaa	agcagctgga	7020
147	ataccttggt	tgttggtaat	gacttgtgcg	gctagaacaa	tctcatcaaa	gccggttatg	7080
148	ttgtgcccta	cgacatagac	ttccaagaaa	gtcgggttgc	ctttgagttc	aagcgtacac	7140
149	agttcctcga	aaggaatgtc	gctggcatgg	acatagccca	gtttgaggca	gaggttttct	7200
150	aagcacggat	tatctgccag	gaactggcgc	caaagcaaa	tgctggcagc	ttcttgaagg	7260
151	gcatcccgat	actgtttaaa	caagctgcct	actttgtttc	tttgcggtt	gaggtagtag	7320
152	aaggtatttg	cttgctttgg	ccagcttgac	cacttttgct	ttttagctat	gttaacagcc	7380
153	tgttcgcata	gctgcgcgtc	accaaacaaa	gtaaacacga	gcataaaaag	catgagttgc	7440
154	ttgccaaaag	taccgtgcca	agtgtatggt	tccacatcat	agacgacaaa	gaggcgcggg	7500
155	gtgtcggggg	gagcggccca	ggggaaaaac	tttatttctt	cccaccagtc	cgaagattgg	7560
156	gtgtttatgt	ggtgaaagta	aaagtcccgg	cggcgagtg	tgacaggtgt	cgtctgctta	7620

RAW SEQUENCE LISTING

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:20

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw

157	aaatacgaac	cgagtcggc	acatcgctgg	acctctgcga	tgggtgtctat	gagatagagc	7680
158	tttctcttgt	gaataagaaa	gttgaggggg	aagggaaggc	gcggcctgtc	agcgcgggcc	7740
159	gggatgcttg	taattttcag	cttccccttg	tatgttttgt	aaacgcacat	atttgcgttg	7800
160	cagaaccgga	cgagcgtgtc	ttggaatgaa	aggatatttt	ctggttttaa	atcaaatggg	7860
161	cagtgtctcca	agtgcagttc	aaaaaggttt	cggagactgc	tggaaacgtc	tgctgatac	7920
162	ttgacttcca	gggtggtccc	gtcttcagtc	tgaccgtgca	gccgtagggg	actgcgtttg	7980
163	gcgaccagg	gcccccttg	ggctttcttt	aaaggggacg	tcgagggccg	aggggcggcc	8040
164	tttgcccttc	gggcctgagg	ggcggtagct	ggaccggatc	gttgagttcg	ggcatgggtt	8100
165	gcagctgttg	gcgcaggtct	gatgcgtgct	gcacgactct	gcggttgatt	ctctgaatct	8160
166	ccgggtgttg	ggtgaatgct	actggccccg	tcactttgaa	cctgaaagag	aggtcgacag	8220
167	agttaataga	tgcatcgtta	agctccgcct	gtctaataat	ttcttccacg	tcaccgctgt	8280
168	ggtctcggtg	agcaatgtct	gtcataaaacc	gttcgatctc	ttcctcgtcc	agttctccgc	8340
169	gaccagctcg	gtggaccgtg	gctgccaaagt	ccgtgctaata	gcgtcgcatg	agctgggaaa	8400
170	aggcatttgt	tcccggttca	ttccacactc	tgctgtatat	aacagcgcca	tcttcgtctc	8460
171	gggctcgcat	gaccacctgg	cccaaagtta	gctccacgtg	gcgagcaaa	acggggctga	8520
172	ggcggaggtg	gtggtgcaga	taattgagag	tgggtggctat	gtgctccacg	atgaagaagt	8580
173	agatgacca	tctgcggatg	gtcgactcgt	taatgttgcc	ctctcgctcc	agcatgttta	8640
174	tggcttcgta	aaagtccaca	gcgaagttaa	aaaactgctc	gttgcgggcg	gagactgtca	8700
175	gctcttcttg	caggagacga	atgacttcgg	ctacggcggc	gcggacttct	tcggcaaagg	8760
176	agcgcgcg	cacgtcctcc	tcctcctctt	cttccccctc	cagcgggggc	atctccaagt	8820
177	ctaccggttc	cgggctgggg	gacagggaa	gcggtgcggg	ccgaaccgacc	cgtcggcgctc	8880
178	gggtgggcaa	ggggagactc	tctatgaatc	gctgcaccat	ctcgccccgg	cgtatccgca	8940
179	tctcctgggt	aacggcacgc	ccgtgttctc	ggggtcggag	ctcaaaaagt	ccgccccgca	9000
180	gttcggtcag	aggccgcgcc	gcgggctggg	gcaggctgag	tgcgtcaata	acatgcgcca	9060
181	ccactctctc	cgtagaggcg	gctgtttcga	accgaagaga	ctgagcatcc	acgggatcgc	9120
182	tgaagcgttg	cacaaaagct	tctaaccagt	cgagtcaca	aggtaggctg	agcatagggtg	9180
183	aggctcgctc	ggtgttgttt	ctgtttggcg	gcgggtggct	gaggagaaaa	ttaaagtacg	9240
184	cgcaccgcag	gcgcgggatg	gttgtcagta	tgatgagatc	cctgcgaccc	gcttgttggg	9300
185	ttctgatgcy	gtttgcaaa	ccccaggctt	ggtcttggca	tcgcccagg	tcatgcactg	9360
186	ttcttggagg	aatctctcta	cgggcacgtt	gcggcgctgc	gggggcagg	tcagccattt	9420
187	cggtgcgtcc	aaacccacgc	aatggttgga	tgagagccaa	gtccgctaact	acgcgctctg	9480
188	ctaggacggc	ttgtctggatc	tgccgcagcg	tttcatcaaa	gttttccaag	tcaatgaagc	9540
189	ggtcgtagg	gccccggttt	atggtgtagg	agcagtttgc	catggtggac	cagtccacaa	9600
190	tctgctgac	taccgcacc	gtttctcggt	acaccagtcg	gctataggct	cgcgtctcga	9660
191	aaacatagtc	gttgcaaacg	cgcaccacgt	attggtagcc	gattaggaag	tgcggcggcg	9720
192	ggtataagta	gagcggccag	ttttgcgtgg	ccggctgtct	ggcgcccaga	ttccgtagca	9780
193	tgagtgtgg	gtatcggtag	acgtgacgcg	acatccagga	gatgcccgcg	gccgaaatgg	9840
194	cggccctggc	gtactcccgg	gcccggttcc	atataattcct	gagaggacga	aagattccat	9900
195	ggtgtgcagg	gtctgccccg	taagacgcgc	gcaatctctc	gcgctctgca	aaaaacatac	9960
196	agatgaaaca	tttttggggc	ttttcagatg	atgcatccc	ctttacggca	aatgaagccc	10020
197	agatccgcgg	cagtggcggg	ggttcctgct	gcggccgcgg	gcgcgagcgt	tgactcaggc	10080
198	ggtactaccg	cgcccccttg	tgctcagatg	ggcgaggggg	aagggttagc	tcggctgtac	10140
199	gcgcacccgg	acacacaccc	gcgcgtgtgc	gtgaagcgcg	atgcggcgga	ggcgtagctt	10200
200	ccccgggaga	acttattccg	cgcaccgcgc	ggggaggaac	ccgaagggag	ccgagacct	10260
201	aagtacaagg	ccggtcggca	gttgcgcgcc	ggcatgcccc	gaaagcgggt	gctgaccgaa	10320
202	ggggactttg	aggtggatga	gcgcactggc	atcagctcag	ccaaagccca	catggaggcg	10380
203	gccgatctag	tgcgggctta	cgagcaaacg	gtgaagcaag	aggctaattt	tcaaaagtca	10440
204	tttaataacc	actgtcggac	actgatctcc	cgcgaggaga	ccaccctggg	tttgatgcac	10500
205	ttgtgggact	ttgcggaggc	atacgcgacg	aacccccgca	gcaagaccct	tacggcccaa	10560

RAW SEQUENCE LISTING

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:20

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw

206	gtcttttctca	tcgtgcagca	cttgcaagat	gagggcattt	ttggggaagc	tttcttaagc	10620
207	atagcagagc	ccgagggagc	atggatgcta	gatctgctaa	acatattgca	gtccattgtg	10680
208	gtgcaagagc	gccagctttc	gctatctgaa	aaggtagccg	cggtagaacta	ctccgtagtt	10740
209	accctgggca	aacattatgc	ccgcaagatc	tttaagagcc	cctttgtgcc	gcttgacaag	10800
210	gaggtgaaga	tcagtacatt	ttatatgcgc	gcggtgctta	aggtcctggg	tctaagtcac	10860
211	gacctgggca	tgtacagaaa	cgaaaagggtg	gagaagctag	ctagcatagg	caggcgttcg	10920
212	ggagatgagc	gacgcggagc	tgtgtttcaa	cctccgccgc	gcactaacca	ctggcgattc	10980
213	tgaagcattc	gatgaaggcg	gggaactttac	ctgggctccg	ccaactcgcg	cgaccgcggc	11040
214	ggccgctttg	ccggggcccg	agtttgagag	tgaagagacg	gacgatgaag	tcgacgaatg	11100
215	agtgatgcgg	acccccgtat	ctttcagctg	gtcagtcggc	aagagaccgt	agccatggcc	11160
216	gaagcgcccc	gaagcctggg	ccccgcccct	tccaatctca	gtttgcaggc	tttattccaa	11220
217	agccagccca	gcgccggagc	ggagtggcac	ggcgtgctgg	agagagtcac	ggcccttaac	11280
218	aaaaatggag	actttggctc	gcagccccag	gcgaaccggg	ttggagccat	cctcgaagcc	11340
219	gtgggtgcccc	cgcgctccga	ttcccaccat	gaaaaagtgc	tagctattgt	gaatgcgctc	11400
220	ttggagactc	aggccatccg	tcgcgatgag	gccggacaga	tgtacaccgc	gctggtgcag	11460
221	cgggtggcca	gatacaacag	tgtgaatgtg	cagggcaatt	tggacaggct	gattcaggac	11520
222	gtgaaggagg	ctctggcgca	gcgcgagcgc	accgggcccg	gggccggcct	agggctctgtg	11580
223	gtagccttga	atgccttcct	gagcacacag	ccagcggtgg	tggagagggg	ccaggagaac	11640
224	tatgtggcct	ttgtgagcgc	cttaaaactc	atggtgaccg	aggcgccgca	gtctgagggt	11700
225	taccaggccg	gacctagttt	cttttttcaa	accagccggc	acggttcgca	gacggtaaac	11760
226	ctcagtcagg	cctttgataa	cttgcgaccc	ctctggggcg	tgcgcgcgcc	agtacacgag	11820
227	cgtactacca	tctcctctct	gtcacacca	aacaccgcgt	tgctcttgct	cctcattgcg	11880
228	ccctttacgg	acagcgtggg	catatcccgg	gacagttacc	tggggcatct	gctgaccctt	11940
229	taccgggaga	ccataggtaa	cactcgagtt	gatgagacca	cgtacaacga	gatcacggaa	12000
230	gtgagtcggg	ccctgggcgc	cgaagacgcg	tctaacttgc	aagccactct	caactactta	12060
231	ctcacaaata	agcagagcaa	gttgccacag	gagttttctc	tgagtcccg	agaggagcgg	12120
232	gtgctgcgct	acgtgcagca	atctgtcagt	ttatttttaa	tgcaggatgg	acacacggcc	12180
233	accactgctc	tagatcaggc	tgcggccaac	atagcgccct	cgttttacgc	gtcccaccgc	12240
234	gactttataa	accgactgat	ggactatttc	cagcgagctg	cggctatggc	ccctgactac	12300
235	tttttacagg	ctggttatga	tccccactgg	ctcccgcgcg	cgggtttctt	tactcaggag	12360
236	tttgactttc	cggagcccaa	cgaaggcttc	ctgtgggatg	atttgagacg	cgcgctccta	12420
237	cgcgcgcacg	taaaagaaga	ggaggatcaa	ggagctgtgg	gcggcacgcc	ggcggttcg	12480
238	gcgcccgcgt	ctcgcgcgca	cacaccaccg	ccgccgcgcg	gtgccgcgga	cctctttgct	12540
239	cctaacgcct	tccgcaatgt	gcaaaataac	ggcgtggatg	aaacttattga	cggcttaagc	12600
240	agatggaaga	cttacgcccc	ggagaggcag	gaagtcgttg	agcggcacag	gcgcagagag	12660
241	gcgcgctgcc	gggcgcgcga	ggcgcgtcta	gagtcgagcg	atgatgacga	cagcgacctc	12720
242	gggccgtttc	tacggggcac	ggggcacctc	gttcacaacc	agtttatgca	tctgaagccc	12780
243	cgggggtcccc	gccagttttg	gtaaccgcac	tgtattaagc	tgtaagtcct	ctcatttgac	12840
244	acttaccaaa	gccatggtct	tgtttcgcc	ctgacacttt	ctctcccccc	acacgcggca	12900
245	ccctacagcc	taggggcgat	gtccagccc	gaactgcagc	caattccgct	gtcccgcgcg	12960
246	cggcttatga	ggcggtggtg	gctggggcct	tccagacgct	ttctcttcga	cgagatccac	13020
247	gtcccgcgcg	gatatgctgc	cgcgtctgcg	gggagaaaca	gtatccgtta	ttccatgctg	13080
248	ccccggttgt	atgacaccac	gaagatatac	cttatcgaca	acaaatcttc	agacatccaa	13140
249	actctgaatt	acaaaaacga	ccactcagat	tacctacta	ccatcgtgca	gaacagcgac	13200
250	ttcacgcccc	tggaggctag	caaccacagc	atcgagctag	acgagcggtc	ccgctggggc	13260
251	ggaaacctta	aaaccatcct	ttatacaaac	ctgcctaata	tcaccagca	catgttttct	13320
252	aactcttttc	gggtaaagat	gatggcctca	aaaaaagacg	gcgtgcccc	gtacgagtgg	13380
253	ttccccctaa	ggctgcccga	gggtaacttt	tctgagacta	tggtcattga	cctcatgaac	13440
254	aatgccatcg	tagagctgta	cttggccttg	gggcgcgagg	agggcgtgaa	ggaagaggac	13500

VERIFICATION SUMMARY

DATE: 10/19/2001

PATENT APPLICATION: US/09/871,212

TIME: 11:54:21

Input Set : A:\29310-20030.00 SEQ. LIST.TXT

Output Set: N:\CRF3\10192001\I871212.raw